

**SOCIO-ECONOMIC AND ENVIRONMENTAL IMPACTS OF FISHERIES  
SUBSIDIES IN MANJUNG, PERAK**

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**UNIVERSITI UTARA MALAYSIA**

**JUNE 2014**



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## ABSTRACT

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Fisheries subsidies play a role as the aid incentive to the fisherman, especially to the small scale fishermen. However, subsidies to fishermen not allocated properly to fisherman who was supposed to receive it. The granting of fish subsidy should continue because it is able to contribute to the socio-economic improvement and fishermen to improve fishing catches in the fisheries activities carried out. The granting of this subsidy contributed to an increase in revenue the fishermen and help fishermen in terms of activities carried out. A study conducted to see the existing dimension relationship between socioeconomic and environmental for the fisherman in Manjung, Perak. The objective of this study was reviewed the subsidies given to fishermen as fuel subsidies and other incentives received fishermen, evaluating the notion of fishermen on fishing activities and the acceptance of subsidies and provide guidance in the future regarding fisheries subsidies towards sustainability and food security. The empirical model is used in this study to achieve the objective of the study by using the descriptive analysis and the multiple regression analysis. The result of the empirical analysis provided evidence of the relationship between the implementation of incentives, such as the fish catch incentive, the livelihood allowance subsidies it has given the increase to income of fishermen. The study questionnaire fisherman perceptions fisheries subsidies for this study shows that all respondents are satisfied with the provision of incentives in the form of subsidy by the government. This implies that in the future in fisheries sector subsidies must be submitted as an incentive to fisherman and as policies that assist fisherman in Malaysia.

## ABSTRAK

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Subsidi perikanan memainkan peranan sebagai insentif bantuan kepada nelayan, terutamanya kepada para nelayan skala kecil. Bagaimanapun pemberian subsidi kepada para nelayan tidak diagihkan secara sempurna kepada golongan nelayan yang sepatut menerimanya. Pemberian subsidi ini perlu diteruskan kerana ianya mapu menyumbang kepada peningkatan sosioekonomi para nelayan dan meningkatkan hasil tangkapan nelayan dalam aktiviti perikanan yang dijalankan. Pemberian subsidi ini menyumbang kepada peningkatan hasil para nelayan dan membantu dari segi aktiviti yang dijalankan. Kajian yang dijalankan bagi melihat hubungan dimensi antara sosioekonomi dan alam sekitar bagi nelayan di kawasan Manjung, Perak. Objektif kajian adalah mengkaji subsidi yang diberikan kepada nelayan seperti subsidi bahan bakar dan juga insentif lain yang diterima nelayan, menilai tanggapan nelayan mengenai aktiviti perikanan dan penerimaan subsidi dan memberi petunjuk di masa hadapan mengenai subsidi perikanan terhadap kemampanan hasil dan keselamatan makanan. Model empirikal yang digunakan dalam kajian ini untuk mencapai objektif kajian dengan menggunakan analisis deskriptif dan analisis regresi berganda. Hasil kajian soal selidik nelayan mengenai persepsi subsidi perikanan bagi kajian ini menunjukkan bahawa kesemua responden berpuas hati dengan pemberian insentif berbentuk subsidi oleh kerajaan. Ini menunjukkan bahawa di masa hadapan dalam sektor perikanan perlu disertakan subsidi sebagai dasar yang membantu para nelayan di Malaysia.

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## CHAPTER 1

### INTRODUCTION

#### 1.0 Background of the Study

Subsidies are one kind of the transfer payment that government given indirect or direct to the private sector from the public sector. Subsidies in term of the benefit, given by the government to the groups that are usually in term of the cash payment or the tax reduction. Subsidies defined as payment to producers from the government, usually in the form of a cash grant to reduce the price of the product that has been sold. Its call as the side of economic benefit and it's the financial aid by government as support all activities that maintain the price low respect the character of subsidies to reduce market price (Code *et al.*, 2000). Fishery subsidies are financial payments that help the sector make more profit than it otherwise would which from public entities to the fishing sector. Subsidies have gained worldwide attention because of their complex relation to trade, ecological sustainability and socioeconomic development (Bottom, Re, Of, & Subsidies, 2006).

This subsidy is the kind of the government transfer payment, whether direct and indirect payment from the government to the industries, such as fisheries sector. Fisheries subsidies identified as beneficial subsidy programs that lead to investment in natural capital such as fish stocks. Overexploitation and remove the ability of the fishery to be sustainable in the long term happen regarding to the disinvestment in natural capital assets which identified by capacity-enhancing subsidies. Further on

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## APPENDIX

### APPENDIX A: Multiple Regression Analysis

#### Variables Entered/Removed

Model	Variables Entered	Variables Removed	Method
1	Size vessel, Vessel size, Experience, Level of education, Frequency fuel consumption <sup>a</sup>	.	Enter

a. All requested variables entered

#### Model Summary<sup>b</sup>

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.964 <sup>a</sup>	.930	.920	93.664

a. Predictors: (Constant), Size Vessel, Vessel size, Experience, Level of education, Frequency fuel consumption

b. Dependent Variable; Fisheries income per month

#### ANOVA<sup>b</sup>

Model	Sum of Square	df	Mean Square	F	Sig
1 Regression	4408619.742	5	881723.948	100.506	.000 <sup>a</sup>

	Residual	333368.894	38	8772.866		
	Total	4741988.636	43			

- c. Predictors: (Constant), Size Vessel, Vessel size, Experience, Level of education, Frequency fuel consumption  
d. Dependent Variable; Fisheries income per month

#### Residuals Statistics<sup>a</sup>

	Minimum	Maximum	Mean	Std. Deviation	N
Predicted Value	907.09	2100.86	1403.41	320.197	44
Std. Predicted Value	-1.550	2.178	.000	1.000	44
Standard Error of Predicted Value	18.254	51.066	33.582	8.374	44
Adjusted Predicted Value	889.87	2060.71	1401.63	318.763	44
Residual	-147.073	348.448	.000	88.050	44
Std. Residual	-1.570	3.720	.000	.940	44
Stud. Residual	-1.806	4.037	.009	1.021	44
Deleted Residual	-201.779	410.327	1.779	104.803	44
Stud. Deleted Residual	-1.864	5.271	.038	1.149	44
Mahal. Distance	.656	11.805	4.886	2.805	44
Cook's Distance	.000	.482	.032	.080	44
Centered Leverage Value	.015	.275	.114	.065	44

- a. Dependent variable: Fisheries income per month

## **APPENDIX B**



### **KESAN SOSIOEKONOMI DAN ALAM SEKITAR ATAS PELAKSANAAN SUBSIDI PERIKANAN DI KAWASAN MANJUNG PERAK**

Kajian Sosio Ekonomi ini dijalankan adalah untuk melihat pola perubahan yang dialami oleh para nelayan dalam kawasan Manjung. Ianya untuk melihat keberkesanan program subsidi perikanan yang diberikan kepada para nelayan. Aspek yang diberi penekanan dalam kajian ini ialah perubahan dari taraf hidup, peningkatan pendapatan dan indeks kemakmuran nelayan seperti pemilikan aset, tahap pendidikan serta lain-lain pendapatan sampingan. Sokongan dan maklumat serta kerjasama yang diberikan kami hargai.

Arahan:

Sila Lengkapkan butiran dalam borang kaji selidik ini dengan menanda dan mengisi petak-petak yang disediakan dengan menggunakan HURUF BESAR.

## BAHAGIAN A: MAKLUMAT LATAR BELAKANG RESPONDEN

1a No. K/P\*: 

--	--	--	--	--	--	--	--	--	--	--	--	--

1b Lokasi: i. 

--

 Kampung ii. 

--

 Kawasan Perikanan

1c Nama (seperti dalam K/P) : 


2 a. Jantina\* : i. Lelaki 

--

 ii. Perempuan 

--

b. Umur : 

--	--

 tahun

c. Tarikh Lahir : 

--	--	--	--	--	--	--	--

 (cth16051970)

3 Kewarganegaraan\* : Warganegara 

--

 Bukan Warganegara 

--

4 Bangsa

a. Melayu 

--

b. Cina 

--

c. Siam 

--

d. India 

--

e. Lain-lain 

--

Sila nyatakan : \_\_\_\_\_

5 Agama

a. Islam 

--

b. Buddha 

--

c. Hindu 

--

d. Lain-lain 

--

Sila nyatakan : \_\_\_\_\_

6. Status Perkahwinan

a. Bujang 

--

b. Berkahwin 

--

c. Duda (Lelaki) 

--

d. Lain-lain 

--

Sila nyatakan : \_\_\_\_\_

- 7 a. Bilangan Anak yang tinggal bersama
- b. Bilangan isi rumah

8 Pekerjaan Utama

- |                      |                      |
|----------------------|----------------------|
| a. Petani Padi       | <input type="text"/> |
| b. Berniaga          | <input type="text"/> |
| c. Buruh Pertanian   | <input type="text"/> |
| d. Penternak         | <input type="text"/> |
| e. Nelayan           | <input type="text"/> |
| f. Buruh Am          | <input type="text"/> |
| g. Kakitangan Swasta | <input type="text"/> |
| h. Pesara            | <input type="text"/> |
| i. Pekerja Kilang    | <input type="text"/> |
| j. Penjaja           | <input type="text"/> |
| k. Pekerja Tak Tetap | <input type="text"/> |
| l. Lain-lain         | <input type="text"/> |

Sila nyatakan: \_\_\_\_\_

9 Pekerjaan Sampingan

- |                        |                      |
|------------------------|----------------------|
| a. Petani              | <input type="text"/> |
| b. Berniaga            | <input type="text"/> |
| c. buruh Pertanian     | <input type="text"/> |
| d. Penternak           | <input type="text"/> |
| e. Nelayan             | <input type="text"/> |
| f. Buruh Am            | <input type="text"/> |
| g. Kakitangan Swasta   | <input type="text"/> |
| h. Kakitangan Kerajaan | <input type="text"/> |
| i. Pesara              | <input type="text"/> |
| j. Pekerja Kilang      | <input type="text"/> |
| k. Penaja              | <input type="text"/> |
| l. Pekerja Tak Tetap   | <input type="text"/> |
| m. Lain-lain           | <input type="text"/> |

Sila nyatakan: \_\_\_\_\_

10 Tahun pengalaman dalam aktiviti perikanan \_\_\_\_\_ tahun.

11 Pernahkah menghadiri kursus perikanan \_\_\_\_\_

1. Ya  2.

Jika Ya, siapakah yang menganjurkan kursus tersebut \_\_\_\_\_

12 Tahap Pendidikan / Kelulusan anda

- a. Institusi Pengajian Tinggi
- b. STPM/STA
- c. Sekolah Menengah (SPM/SPVM)
- d. Sekolah Menengah Rendah (PMR)
- e. Sekolah Rendah
- f. Sekolah Pondok
- g. Tiada Pendidikan


13 Nyatakan Kebolehan anda dan keluarga di dalam penggunaan Teknologi Makluma (IT) (Jawab satu shaja)

- a. Tahu cara menggunakan komputer
- b. Tahu cara menggunakan internet di dalam mencari maklumat
- c. Hanya anak-anak yang tahu mengguna komputer dan internet
- d. Tidak tahu langsung
- e. Anak-anak juga tidak tahu


14 **PENDAPATAN KETUA ISI RUMAH**

**i. PENDAPATAN DARI PERIKANAN (SEBULAN)**

Bil	Jenis Pendapatan	Jumlah (RM)
1	Jumlah pendapatan perikanan (RM sebulan) termasuk subsidi	
2	Lain-lain (RM) (Sila nyatakan)	
	Jumlah Pendapatan dari perikanan (RM sebulan)	



**ii. PENDAPATAN DARI BUKAN PERIKANAN**

Bil	Jenis Pendapatan	Jumlah (RM)
1	Pengajian (kerka kerajaan/kerja swasta) (RM Sebulan)	
2	Ambil upan (bukan perikanan) (Rm sebulan)	
3	Sewaan bot tujuan perikanan (RM sebulan)	
4	Sumbangan anak-anak/saudara mara (RM sebulan)	
5	Lain-lain	
	Jumlah pendapatan bukan dari perikanan (RM sebulan)	

**b. Jumlah Pendapatan Ketua Isi Rumah (i+ii)**

**RM**\_\_\_\_\_

15. Adakah pendapatan ke laut sebulan yang anda perolehi boleh menampung keperluan keluarga

- a. Mencukupi
- b. Tidak mencukupi
- c. Kadangkala mencukupi kadangkala tidak cukup


16. Adakah pendapatan ke laut di campurdengan sumber pendapatan lain sebulan boleh menampung keperluan keluarga

- a. Mencukupi
- b. Tidak mencukupi
- c. Kadangkala mencukupi kadangkala tidak cukup


17. Apakah jenis skim bantuan yang diterima

- i. Bot
- ii. Enjin
- iii. Perkakas
- iv. Skim insentif hasil tangkapan
- v. Skim bayaran elaun sara hidup
- vi. Skim subsidi diesel dan petrol
- vii. Tabung bencana alam dan kebajikan nelayan
- viii. Insentif kotak ikan berinsulasi fodd grade (KIBFG) bagi ikan tempatan
- ix. Lain lain bantuan Nyatakan .....


18. Berapakah umur bot?

\_\_\_\_\_ Tahun

19. Apakah saiz bot yang digunakan?

GRT

- a. Kurang 20
- b. 20-39.9
- c. 40-69.9
- d. Lebih 70

20. Apakah saiz enjin yang digunakan?

\_\_\_\_\_ KW

21. Jenis pukot yang digunakan?

- a. Pukat Hanyut
- b. Pukat Tunda
- c. Pukat Jerut
- d. Lain-lain


Nyatakan: \_\_\_\_\_

### **BAHAGIAN B: KEMUDAHAN**

(BOLEH JAWAB LEBIH DARI SATU JAWAPAN)

22. Pemilikan rumah kediaman

- a. Rumah sendiri
- b. Sewa
- c. Lain-lain


23. Bekalan asas di rumah

- a. Bekalan air
- b. Bekalan elektrik


24. Peralatan di rumah

- a. Peti ais
- b. Televisyen
- c. Sofa
- d. Radio
- e. Telefon rumah
- f. Telefon bimbit
- g. Mesin basuh
- h. Ketuhar
- i. Set meja makan
- j. Televisyen ASTRO
- k. Hawa dingin
- l. Internet


25. Kenderaan yang dimiliki

- a. Motorsikal
- b. Kereta
- c. Van
- d. Lori


**BAHAGIAN C: KESAN PENGGUNAAN SUBSIDI KEPADA  
PENINGKATAN HASIL LAUT**

26. Hasil daripada aktiviti perikanan yang dijalankan

Sila nyatakan jawapan anda. Sila jawab secara tepat yang mungkin mengikut ingatan anda.

- a. Hasil RM \_\_\_\_\_
- b. Jenis ikan yang ditangkap
  - i. \_\_\_\_\_
  - ii. \_\_\_\_\_
  - iii. \_\_\_\_\_
  - iv. Lain-lain \_\_\_\_\_

c. Cara pembahagian hasil tangkapan?

- i. \_\_\_\_\_
- ii. \_\_\_\_\_

**BAHAGIAN D: PETUNJUK KEPUASAN DAN KESEDARAN**  
**PENGUNAAN SUBSIDI DI KAWASAN PERIKANAN**

Sila nyatakan tahap kepuasan anda terhadap soalan-soalan mengikut skala yang diberikan:

	Amat tidak memuaskan	1	2	3	4	5	Amat memuaskan
27	Pada keseluruhannya, sejauh manakah anda berpuas hati dengan taraf hidup anda kini?	1	2	3	4	5	
28	Pada keseluruhannya, sejauh manakah anda berpuas hati dengan kualiti program yang diperolehi?	1	2	3	4	5	
29	Pada keseluruhannya, sejauh manakah anda berpuas hati dengan kegiatan penangkapan di kawasan perikanan anda?	1	2	3	4	5	
30	Pada keseluruhannya, sejauh manakah anda berpuas hati dengan penggunaan skim dan bantuan di masa hadapan?	1	2	3	4	5	
31	Pada keseluruhan, sejauh manakah anda berpuas hati dengan jaminan yang diberikan kerajaan atas bantuan dan skim?	1	2	3	4	5	

**BAHAGIAN E: ALASAN MENGGUNAKAN SKIM DALAM AKTIVITI  
MENANGKAP HASIL LAUT**

Sila nyatakan alasan nelayan menggunakan skim dalam aktiviti perikanan, dengan skala yang diberikan:

Amat tidak gembira

1	2	3	4	5
---	---	---	---	---

Amat gembira

- 32 Selesa semasa bekerja 1 2 3 4 5
- 33 Semua nelayan di kawasan saya juga menggunakan skim dan bantuan 1 2 3 4 5
- 34 Tidak dirasakan perlu dalam aktiviti perikanan 1 2 3 4 5

**BAHAGIAN F: KESAN SUBSIDI ATAS SOSIOEKONOMI RESPONDEN**

- 35 Kesan penggunaan dan peranan

Bil	Perkara	Ya	Tidak
a	Penggunaan bot sendiri		
b	Penggunaan bot sewa		
c	Ketua		
d	Pembantu		
e	Pekerja/awak-awak		
f	sendirian		
g	Tidak diketahui		

36 Kekerapan

Bil	Perkara	Mengikut kekerapan		
		Jam/Hari	Hari/Minggu	Hari/Bulan
a	Kekerapan menangkap hasil laut			

37 Kekerapan membeli petrol atau diesel (sebulan) (Anggaran)

Bil	Perkara	Jenis bahan api	
		Petrol	Diesel
a	Pembelian bahan api		

38 Hasil tangkapan menikut kekerapan (Anggaran)

Bil	Perkara	10-15 hari	16-25 hari	26-30 hari
a	Hasil			

39 Berapakah anggaran perbelanjaan yang dijalankan dalam sebulan?

Bil	Perkara	Minggu (RM)	Bulan (RM)
a	Makanan		
b	Pakaian		
c	Tempat tinggal		
d	Lain-lain		

40 Adakah anda menyimpan hasil daripada aktiviti penangkapan?

☐

Ya

☐

Tidak

RM\_\_\_\_\_ Sebulan

**KERTAS SOALAN TAMAT**

**TERIMA KASIH ATAS KERJASAMA TUAN DALAM MENJAWAB SOAL  
SELIDIK INI**